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## Derwent Record

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Derwent Title: Ultra high mol. wt. crosslinked polyethylene prepn. - from copolymer of ethylene and diene cpd.

Original Title: ☒ JP62243634A2: ULTRA-HIGH-MOLECULAR WEIGHT POLYETHYLENE CROSSLINKED PRODUCT

Assignee: NIPPON OIL KK Standard company  
Other publications from [NIPPON OIL KK \(NIOC\)](#)...

Inventor: None

Accession/Update: 1987-338571 / 198748

IPC Code: C08F 8/00 ; C08J 3/28 ; C08F 210/02 ; C08F 236/02 ;  
C08J 3/24 ; C08K 3/14 ; C08L 23/08 ; C08L 47/00 ; C08F  
210/02 ; C08F 236/02 ;

Derwent Classes: A17; A60;

Manual Codes: A04-B01D(Treatment) , A04-G08(Ethylene copolymers) ,  
A08-C05(Peroxides, persalts and other oxidisers  
crosslinkers) , A11-C02B(Crosslinking with irradiation)

Derwent Abstract: (JP62243634A) Method comprises crosslinking copolymer prep. by copolymerising ethylene and diene cpd(s). in mol ratio of diene cpd(s)/ethylene of at least 0.5 in the presence of catalyst system comprising solid catalyst contg. Mg and Ti and/or V and an organometallic cpd. in mol. ratio of Ti and/or V/diene cpd. of at least  $1.0 \times 10^{-5}$  and having intrinsic viscosity of at least 5 dl/g as measured at 135 deg.C in decalin and crosslinking the copolymer in the presence of organic peroxide or by irradiating radiation beams. Pref. the diene cpd. is non-conjugated polycyclic diene (e.g. 5-vinyl-2-norbornene, 5-ethyl-2-norbornene, dicyclo-pentadiene, norbornadiene or propenyl norbornene), non-conjugated aliphatic diene (e.g. 1,4-pentadiene, 1,4- or 1,5-hexadiene, etc.) or conjugated aliphatic diene (e.g. 1,3-butadiene, isoprene, etc.). The copolymerisation is at 0-90 deg.C and 0-70 kg/cm<sup>2</sup>G in gas phase or in an inert solvent.  
USE/Advantage - The crosslinked copolyethylene has mol.wt. of at least 1,000,000 and high resistance to heat, solvents and abrasion and high dimensional stability and self-lubrication. It is used as a material for mfg. hopper, silo, gear, etc. or as a lining or backing material in various industrial fields.

Dwg. 0/0

Family:

PDF Patent	Pub. Date	Derwent Update	Pages	Language	IPC Code
<input checked="" type="checkbox"/> JP62243634A *	1987-10-24	198748	10	English	C08F 210/02
Local appls.: JP1986000087050 Filed:1986-04-17 (86JP-0087050)					
JP94039499B2 =	1994-05-25	199419	9	English	C08F 210/02
Local appls.: Based on JP62243634 (JP 62243634) JP1986000087050 Filed:1986-04-17 (86JP-0087050)					

INPADOC Legal Status: None

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Priority Number:

Application Number	Filed	Original Title
<u>JP1986000087050</u>	1986-04-17	ULTRA-HIGH-MOLECULAR WEIGHT POLYETHYLENE CROSSLINKED PRODUCT

Unlinked Registry Numbers: 0639U 0659U 0728U 0879U 0904U 1145U 1359U 1509U 1510U 1801U 1929U 2075U 5247U

Polymer Multipunch Codes: [Show polymer multipunch codes](#)

Polymer Keyterm Serial Number: [Show polymer keyterm serial numbers](#)

Title Terms: ULTRA HIGH MOLECULAR WEIGHT CROSSLINK POLYETHYLENE  
PREPARATION COPOLYMER ETHYLENE POLYDIENE COMPOUND

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